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## (54) MEMBRANE SEPARATION WATER TREATMENT APPARATUS

### (57)Abstract:

**PURPOSE:** To effectively wash the membrane elements of a membrane module device and to reduce the consumption amount of ozone gas at the time of washing.

**CONSTITUTION:** A raw water circulating passage is formed between a raw water tank 4 and a membrane module device 1 and a treated water circulating passage is formed between a treated water tank 9 and the membrane module device 1. Injectors 8, 13 for the inflow of ozone gas are respectively provided to a circulating inlet pipe 7a and a backwashing pipe 12. A gas-liquid separation tank 3 is provided to a transmitted water pipe 17 and the ozone gas separated by the gas-liquid separation tank 3 is guided to the injector 8 by an ozone gas pipe 18.

